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	Application No.	Applicant(s)	
Notice of Allowability	10/688,825	HEIDRICH, GUNTE	R
	Examiner	Art Unit	
	Allen C. Ho	2882	
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.			
1. X This communication is responsive to <u>amendment filed on 25 May 2005</u> .			
2. The allowed claim(s) is/are 1 and 3-9.			
3. The drawings filed on 17 October 2003 are accepted by the Examiner.			
4.			
Attachment(s) 1. ☑ Notice of References Cited (PTO-892)	5. Notice of Informal Page	atent Application (PTC	D-152)
2.  Notice of Draftperson's Patent Drawing Review (PTO-948)	6. Interview Summary	(PTO-413),	
3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date		nent/Comment	
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	<ol> <li>8. ⊠ Examiner's Stateme</li> <li>9. □ Other</li> </ol>	nt of Reasons for Allo	wance
of Diological Material	9. 🗀 Other	·	



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## **DETAILED ACTION**

## Allowable Subject Matter

1. Claims 1 and 3-9 are allowed.

2. The following is an examiner's statement of reasons for allowance:

With regard to claims 1 and 3-9, although the prior art discloses an x-ray tube comprising a metallic vacuum housing containing an evacuated volume, the metallic vacuum housing having a surface facing and defining a part of the evacuated volume, and an anode and a cathode disposed in the evacuated volume, it fails to teach or fairly suggest the surface having a plurality of notches therein that relieves thermal stress in the surface caused by electrons back-scattered onto the surface from the electron beam striking the anode as claimed.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

## Response to Arguments

3. Applicant's arguments filed 25 May 2005 with respect to claims 1 and 3-9 have been fully considered and are persuasive. The rejections of claims 1 and 3-9 have been withdrawn.

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## Conclusion

4. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

- (1) Dumitrescu *et al.* (U. S. Patent No. 5,224,143) disclosed an x-ray tube comprising a cathode, the cathode comprises two filaments, each filament is disposed in a corresponding notch.
- (2) Lounsberry et al. (U. S. Patent No. 4,943,989) disclosed an x-ray tube comprising a vacuum housing, the inner surface of the housing comprises a plurality of notches (53).
- (3) Parker (U. S. Statutory Invention Registration NO. H312) disclosed an x-ray tube comprising a metallic vacuum housing, the inner surface of the housing comprises a plurality of notches (28).
- (4) Gralenski *et al.* (U. S. Patent No. 3,892,989) disclosed an x-ray tube comprising a vacuum housing, the inner surface of the housing comprises a plurality of notches (114).
- (5) Seki et al. (U. S. Patent No. 3,591,821) disclosed an x-ray tube comprising a cathode, the cathode comprises a plurality of filaments, each filament is disposed in a corresponding notch (29).

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Allen C. Ho whose telephone number is (571) 272-2491. The examiner can normally be reached on Monday - Friday from 8:00 am - 5:00 pm.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward J. Glick can be reached at (571) 272-2490. The fax phone number for the

organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

allen C. Ho

Allen C. Ho Primary Examiner

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12 August 2005